WEST

Just Jans

Generate Collection

Print

L5: Entry 54 of 113

File: DWPI

Jul 11, 2000

DERWENT-ACC-NO: 2000-495590

DERWENT-WEEK: 200132

COPYRIGHT 2003 DERWENT INFORMATION LTD

TITLE: Composition of martensitic stainless <u>steel</u> for crude oil pipelines of oil wells, includes specified weights of <u>carbon</u>, <u>silicon</u>, <u>manganese</u>, <u>phosphorous</u>, <u>chromium</u>, molybdenum, nickel, copper, tungsten with iron

PATENT-ASSIGNEE:

ASSIGNEE

CODE

SUMITOMO METAL IND LTD

SUMQ

PRIORITY-DATA: 1998JP-0364923 (December 22, 1998)

PATENT-FAMILY:

PUB-NO

PUB-DATE

LANGUAGE

PAGES

MAIN-IPC

JP 2000192196 A

July 11, 2000

007

C22C038/00

APPLICATION-DATA:

PUB-NO

APPL-DATE

APPL-NO

DESCRIPTOR

JP2000192196A

December 22, 1998

1998JP-0364923

INT-CL (IPC): C22 C 38/00; C22 C 38/58

ABSTRACTED-PUB-NO: JP20001921-96A

BASIC-ABSTRACT:

NOVELTY - Martensitic stainless steel consists of 0.001-0.5 wt% of \underline{C} , 0.5-1 wt% of \underline{Si} , 0.05-2 wt% of \underline{Mn} , 0.025 wt% or less of \underline{P} , 0.1 wt% or less of \underline{S} , 9-14 wt% of \underline{Cr} , 3.1-7 wt% of \underline{Mn} , 0.05-7 wt% of \underline{Ni} , 0.5-7 wt% of \underline{Co} , 0.001-0.1 wt% of \underline{Al} , 0.05 wt% or less of \underline{N} , 0.1 wt% or less of $\underline{O2}$, 0-5 wt% each of \underline{Cu} and \underline{W} and the remaining of \underline{iron} and $\underline{unavoidable}$ impurities.

USE - For crude oil pipelines of oil wells.

ADVANTAGE - The $\underline{\text{steel}}$ has excellent hydrogen sulfide and $\underline{\text{carbon}}$ dioxide corrosion resistance, high $\overline{\text{strength}}$ and toughness.

CHOSEN-DRAWING: Dwg.0/0

TITLE-TERMS: COMPOSITION MARTENSITE STAINLESS <u>STEEL</u> CRUDE OIL PIPE OIL WELL SPECIFIED WEIGHT <u>CARBON SILICON MANGANESE PHOSPHOROUS CHROMIUM</u> MOLYBDENUM <u>NICKEL</u> COPPER TUNGSTEN IRON

DERWENT-CLASS: H01 H03 M27

CPI-CODES: H01-C01; H03-B; M27-A04; M27-A04A; M27-A04C; M27-A04M; M27-A04N; M27-A04S;

UNLINKED-DERWENT-REGISTRY-NUMBERS: 1666U; 1669U ; 1734U

SECONDARY-ACC-NO:

CPI Secondary Accession Numbers: C2000-148961

WES

Generate Collection

Print

L5: Ent

L5: Entry 11 of 113

File: JPAB

Sep 30, 1997

PUB-NO: JP409256115A

DOCUMENT-IDENTIFIER: JP 09256115 A

TITLE: MARTENSITIC STAINLESS STEEL, EXCELLENT IN SOUR RESISTANCE AND HAVING SUPERIOR

WELDABILITY, AND ITS PRODUCTION

PUBN-DATE: September 30, 1997

INVENTOR-INFORMATION:

NAME

COUNTRY

ASAHI, HITOSHI TAMEHIRO, HIROSHI MURAKI, TARO

SHIGESATO, GENICHI

ASSIGNEE-INFORMATION:

NAME

COUNTRY

NIPPON STEEL CORP

APPL-NO: JP08061366

APPL-DATE: March 18, 1996

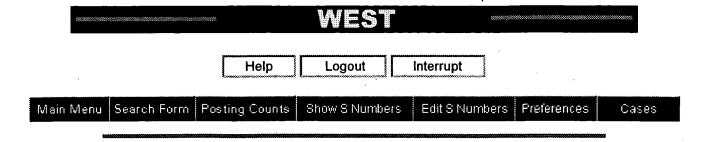
INT-CL (IPC): $\underline{\text{C22}}$ $\underline{\text{C}}$ $\underline{38/00}$; $\underline{\text{C21}}$ $\underline{\text{D}}$ $\underline{8/02}$; $\underline{\text{C22}}$ $\underline{\text{C}}$ $\underline{38/44}$; $\underline{\text{C22}}$ $\underline{\text{C}}$ $\underline{38/50}$

ABSTRACT:

PROBLEM TO BE SOLVED: To provide a martensitic stainless <u>steel</u>, having a strength equivalent to API X80 or below and excellent in <u>CO</u>2 corrosion resistance, SSC resistance, and weldability, and its production.

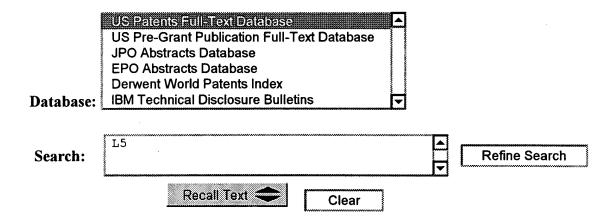
SOLUTION: This steel has a composition consisting of, by weight, ≤0.035% \underline{C} , ≤0.50% \underline{Si} , 0.1-1.5% \underline{Mn} , ≤0.03% \underline{P} , ≤0.005% \underline{S} , 9-13% \underline{Cr} , 1.5-6% \underline{Ni} , 0.3-1.8% \underline{Cu} , 1.5-2.5% \underline{Mo} , ≤0.06% \underline{Al} , ≤0.02% \underline{N} , and the balance essentially \underline{Fe} and having relations satisfying inequality 40C+34N+0.3Cu+Ni-1.1Cr-1.8 \underline{Mo} ≥-10.5 among the components. Further, this steel has a structure composed essentially of martensitic structure and containing retained austenite phase by ≥10%. At the time of its production, two-stage heat treatment is performed. By this method, the martensitic stainless steel having excellent characteristics in a weld heat-affected zone and corrosion resistance, which cannot possibly be obtained in the case of the conventional steel, can be obtained.

COPYRIGHT: (C) 1997, JPO



Search Results -

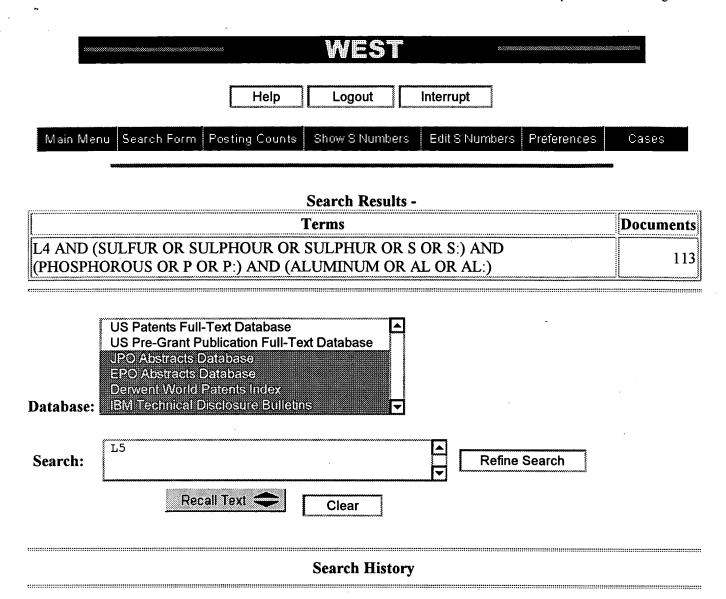
| Terms | Documents |
|---|-----------|
| L4 AND (CARBON OR C OR C:) AND (NITROGEN OR N OR N:) AND (SILICON | |
| OR SI OR SI:) AND (MANGANESE OR MN OR MN:) AND (CHROMIUM OR CR | 128 |
| OR CR:) AND (IRON OR FE OR FE:) | |



Search History

DATE: Tuesday, April 08, 2003 Printable Copy Create Case

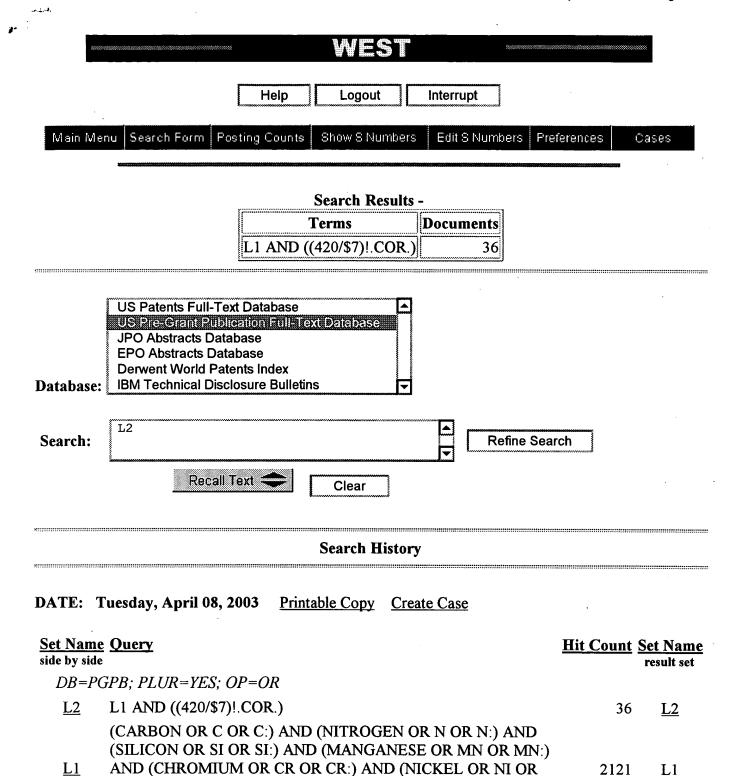
| <u>Set Nam</u> | <u>e Query</u> | Hit Count | Set Name |
|----------------|--|-----------|------------|
| ide by sid | e | | result set |
| DB=U | ISPT; PLUR=YES; OP=OR | | |
| <u>L5</u> . | L4 AND (CARBON OR C OR C:) AND (NITROGEN OR N OR N:) AND (SILICON OR SI OR SI:) AND (MANGANESE OR MN OR MN:) AND (CHROMIUM OR CR OR CR:) AND (IRON OR FE OR FE:) | 128 | <u>L5</u> |
| <u>L4</u> | L1 OR L2 OR L3 | 638 | <u>L4</u> |
| <u>L3</u> | ((420/104 420/105 420/106 420/107 420/108 420/109 420/110 420/111 420/112 420/113 420/114)!.COR.) | 350 | <u>L3</u> |
| <u>L2</u> | ((420/89 420/90 420/91 420/92)!.COR.) | 148 | <u>L2</u> |
| <u>L1</u> | ((420/36 420/37 420/38 420/39)!.COR.) | 140 | <u>L1</u> |



DATE: Tuesday, April 08, 2003 Printable Copy Create Case

| Set Name side by side | | Hit Count | Set Name result set |
|--------------------------|---|-----------|------------------------|
| DB=JP | PAB,EPAB,DWPI,TDBD; PLUR=YES; OP=OR | | |
| <u>L5</u> | L4 AND (SULFUR OR SULPHOUR OR SULPHUR OR S OR S:) AND (PHOSPHOROUS OR P OR P:) AND (ALUMINUM OR AL OR AL:) | 113 | <u>L5</u> . |
| <u>L4</u> | L3 NOT ((LEAD OR PB OR PB:) OR (CALCIUM OR CA OR CA:) OR (MAGNESIUM OR MG OR MG:) OR (CALCIUM OR CA OR CA:)) | 1147 | <u>L4</u> |
| <u>L3</u> | L2 AND STEEL | 1387 | <u>L3</u> |
| <u>L2</u> | L1 NOT ((NIOBIUM OR NB OR NB:) OR (TITANIUM OR TI OR TI:) OR (TANTALUM OR TA OR TA:)) | 2342 | <u>L2</u> |
| <u>L1</u> | (CARBON OR C OR C:) AND (NITROGEN OR N OR N:) AND (SILICON OR SI OR SI:) AND (MANGANESE OR MN OR MN:) AND (CHROMIUM OR CR OR CR:) AND (NICKEL OR NI OR NI:) AND (COBALT OR CO OR CO:) AND (IRON OR FE OR FE:) | 6665 | <u>L1</u> |

END OF SEARCH HISTORY



NI:) AND (COBALT OR CO OR CO:) AND (IRON OR FE OR

END OF SEARCH HISTORY

FE:)

Freeform Search US Patents Full-Text Database US Pre-Grant Publication Full-Text Database JPO Abstracts Database Database: **EPO Abstracts Database Derwent World Patents Index IBM Technical Disclosure Bulletins** L5 NOT ((NIOBIUM.CLM. OR NB.CLM. OR NB:.CLM.) OR (TITANIUM.CLM. OR TI.CLM. OR TI:.CLM.) OR Term: (CALCIUM.CLM. OR CA.CLM. OR CA:.CLM.) OR (MAGNESTUM.CLM. OR MB.CLM.) OR (LEAD.CLM Display: Documents in Display Format: CIT Starting with Number 1 Generate: O Hit List O Hit Count O Side by Side O Image Help Search Clear Logout Interrupt Main Menu Show S Numbers Edit S Numbers Preferences Cases

Search History

DATE: Tuesday, April 08, 2003 Printable Copy Create Case